COURSE OUTLINE

(1) **GENERAL**

School of Engineering			
Department of Naval Architecture			
Undergraduate			
NAOME1212		SEMESTER	2 nd
SHIP L	SHIP LINES DRAWING AND INTRODUCTION TO CASD		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS (ECTS)
	Lectures 2		5
Laboratory		2	5
Total		4	
SE TYPE	Special background		
general background,			
velopment			
OURSES:			
LANGUAGE OF INSTRUCTION GREEK			
TIONS:			
RED TO	Yes (Italian)		
JDENTS			
E(URL)	https://eclass.uniwa.gr/courses/NAFP109/		
	https://eclass.uniwa.gr/courses/NA209/		
	https://ocp.teiath.gr/courses/NAFP_UNDER118/		
	https://ocp.teiath.gr/modules/video/?course=NAFP_UNDER118		
	(VIDEO lectures)		
	School Depart Under NAOM SHIP L ENT TEA ENT TE	School of Engineering Department of Naval Archit Undergraduate NAOME1212 SHIP LINES DRAWING AND ENT TEACHING ACTIVITIES Lectures Laboratory Total SE TYPE ackground, ed, general evelopment DURSES: UCTION SPECial background evelopment DURSES: TE (URL) https://eclass.uniwa https://ocp.teiath.g https://ocp.teiath.g https://ocp.teiath.g	School of Engineering Department of Naval Architecture Undergraduate NAOME1212 SEMESTER SHIP LINES DRAWING AND INTRODUCTION TO CAS ENT TEACHING ACTIVITIES Lectures Lectures Lectures Lectures Lectures Laboratory C

(2) COURSE GOALS / LEARNING OUTCOMES

The aim of the course is to familiarize students with the basic principles and fundamentals of the lines plan design of the ship. In the course the geometric form of the ship will be described and students will understand how to use the lines plan of the ship in order to solve design and geometric resolution problems. Finally the application of CASD to the design of lines plan will be provided.

(3) COURSE CONTENT / SYLLABUS

1. LECTURES

Fundamental Concepts and Definitions: Terminology of ship parts, general dimensions, hull coefficients. Hull geometric form, forward section forms, stern forms. Lines plan drawing, design methods. Main dimensions and hull coefficients optimum selection, main dimensions ratio. Calculations using lines plan drawing. Systematic series, introduction and lines plan design using systematic series. Introduction to CASD.

LABORATORY Conventional method lines plan design. Introduction and Analytical presentation of CASD. Lines plan design using CASD.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc.	Face-to-face		
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students	 Support learning through platform. 	the electronic e-class	
TEACHING METHODS	Activity	Workload (hours)	
The manner and methods of teaching	Lectures	26	
are described in detail. Lectures, seminars, laboratory practice	Laboratory exercises	26	
fieldwork, study and analysis of	Homework assignments	52	
bibliography, tutorials, placements,	Individual study	39	
clinical practice, art workshop, interactive teachina, educational visits.			
project, essay writing, artistic creativity,			
etc.			
learning activity are given as well as the	Course total	143	
hours of non- directed study according to the principles of the ECTS			
STUDENT PERFORMANCE	1. Lectures (50 %)		
EVALUATION	1A. theoretical question	ns	
Description of the evaluation procedure Language of evaluation, methods of	2A. problems calculation	n	
multiple choice questionnaires, short-	2. Laboratory (50 %)		
answer questions, open-ended questions,	 lines plan drawing examination CASD drawing examination 		
problem solving, written work, essay/report, oral examination. public			
presentation, laboratory work, clinical			
examination of patient, art interpretation, other			

(5) ATTACHED BIBLIOGRAPHY

- 1. SHIP DESIGN DRAWING AND INTRODUCTION TO CASD, G. Hatzikonstandis, UNIWA, 2019
- 2. Letcher, J., 2009, The Principles of Naval Architecture Series: The Geometry of Ships, The Society of Naval Architects and Marine Engineers, ISBN: 978-0-939773-67-1.
- 3. Journal of Ship Research, ISSN# 0022-4502
- 4. Journal of Ship Production and Design, ISSN#2158-2866